AMSAT News Service Weekly Bulletins
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SB SAT @ AMSAT $ANS-279.01
PHASE-3D MACHINIST NEEDED

HR AMSAT NEWS SERVICE BULLETIN 279.01 FROM AMSAT HQ
SILVER SPRING, MD OCTOBER 6, 1993
TO ALL RADIO AMATEURS BT
BID: $ANS-279.01

WD4FAB NEEDS A FEW GOOD MACHINIST FOR PHASE-3D

Dick Jansson (WD4FAB), AMSAT VP Engineering, has asked the AMSAT News Service (ANS) to post an additional request for machinist help on the Phase-3D project. As many of you know, several machinist volunteers have already stepped forward in the past to assist with the project, and many have produced some very high quality materials.

Right now, however, Dick has an additional and urgent need for a machinist volunteer with access to a numerically controlled (NC) lathe and who can also produce modest quantities of small aluminium inserts for honeycomb panels. These inserts will be used in manufacturing Phase-3D's solar arrays.

Anyone with these capabilities and who would like to volunteer should contact Dick Jansson directly via INTERNET at "wd4fab@amsat.org" or you can fax him at (407) 644-9872.

Dick Daniels
AMSAT-NA Phase-3D Project Manager

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SB SAT @ AMSAT $ANS-279.02
KITSAT-B BECOMES KITSAT-OSCAR-25

HR AMSAT NEWS SERVICE BULLETIN 279.02 FROM AMSAT HQ
SILVER SPRING, MD OCTOBER 6, 1993
TO ALL RADIO AMATEURS BT
BID: $ANS-279.02

SaTReC & KAIST Announces the Launch of KITSAT-OSCAR-25 (KO-25)

The Satellite Technology Research Center(SaTReC) at the Korean Advanced Institute of Space Tecnology (KAIST), announced the successful launch and activation of new OSCAR. KITSAT-2 was built at KAIST and is named as KITSAT-OSCAR-25 (KO-25) following the suggestions from AMSAT group. KO-25 was launched by ARIANE launcher at 01:45 UTC on 26-SEP-93 from Kourou Space Center of French Guyana. KO-25 was inserted into orbit after 23 minutes. KO-25 was activated 12:03 UTC on the same day from the Central Command Groundstation at SaTReC at KAIST. KO-25 carries five payloads onboard such as CCD Earth Imager, Store-and-Forward mailer, Digital Signal Processing Experiment for High Speed Modem tests, Infra-Red Sensor Experiment (IREX), Low energy electron detector (LEED) and it also has new computer system called KASCOM (KAIST Satellite Computer) for small satellite.

SaTReC sincerely express gratitude on the help that AMSAT members have given to us during our initial operation. Special thanks to W3XO, WD0E, Harold Price, G0/K8KA, Eric A. Cottrell, Steve Greene, DB2OS, N3FKV, Ron Parise, W3IWI and whom were active on the INTERNET during the period.

SaTReC congratulates the AMRAD and ITAMSAT teams, and the University of Surrey, on the launch and activation of their satellites. For further information about SaTReC and the KO-25 payloads, please contact SaTReC via:

Tel: 82-42-869-8614
Fax: 82-42-861-0064
INTERNET: hskim@satrec.kaist.ac.kr

/EX
SB SAT @ AMSAT $ANS-279.03
AMSAT OPS NET SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 279.03 FROM AMSAT HQ
SILVER SPRING, MD OCTOBER 6, 1993
TO ALL RADIO AMATEURS BT
BID: $ANS-279.03

Current AMSAT Operations Net Schedule For AO-13

AMSAT Operations Nets are planned for the following times. Mode-B Nets are conducted on AO-13 on a downlink frequency of 145.950 MHz. If, at the start of the OPS Net, the frequency of 145.950 MHz is being used for a QSO, OPS Net enthusiasts are asked to move to the alternate frequency of 145.955 MHz.

Date	UTC	Mode	Phs	NCS	Alt NCS
23-Oct-93	1315	B	154	WB6LLO	WA5ZIB
30-Oct-93	1300	B	62	W5IU	WB6LLO
13-Nov-93	1230	B	146	VE2LVC	W5IU

Any stations with information on current events would be most welcomed. Also, those interested in discussing technical issues or who have questions about any particular aspect of OSCAR statellite operations, are encouraged to join the OPS Nets. In the unlikely event that either the Net Control Station (NCS) or the alternate do not call on frequency, any participant is invited to act as the NCS.

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Slow Scan Television on AO-13

SSTV sessions will be held on immediately after the OPS Nets a downlink on a Mode-B downlink frequency 145.960 MHz.

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SB SAT @ AMSAT $ANS-279.04
WEEKLY OSCAR STATUS REPORTS

HR AMSAT NEWS SERVICE BULLETIN 279.04 FROM AMSAT HQ
SILVER SPRING, MD OCTOBER 6, 1993
TO ALL RADIO AMATEURS BT
BID: $ANS-279.04

Weekly OSCAR Status Reports: 01-OCT-93

AO-13: Current Transponder Operating Schedule:
L QST *** AO-13 TRANSPONDER SCHEDULE *** 1993 Aug 25-Oct 25
Mode-B : MA 0 to MA 90 !
Mode-BS : MA 90 to MA 120 !
Mode-S : MA 120 to MA 145 !<- S transponder; B trsp. is OFF
Mode-S : MA 145 to MA 150 !<- S beacon only
Mode-BS : MA 150 to MA 180 ! Blon/Blat 180/0
Mode-B : MA 180 to MA 256 !

Omnis : MA 230 to MA 40 ! Move to attitude 210/0, Oct 25
Continuous up-to-date information about AO-13 operations is always available on the beacons at 145.812 MHz and 2400.646 MHz in CW, RTTY and 400 bps PSK. Also, these bulletins are also posted to INTERNET, ANS bulletins, Packet, PACSATs, etc., and can also be found in many international newsletters. [G3RUH/DB2OS/VK5AGR]

KO-25: KO-25 has deployed its gravity gradient boom and is operating nominally. On 4-OCT-93 2:10 UTC Attitude Determination and Control System (ADCS) engineers concluded that the spinning rate of KO-25 had been reduced enough and they started preparation operation for boom deployment. At 3:56 UTC the same day, boom was successfully deployed which was proven by telemetry. After the deployment, KO-25 was confirmed to have an attitude which the bottom of the spacecraft looking down the Earth. After some upgrading work on command groundstation, receiving quality has improved and we are now having excellent contact to our bird. No fading is experienced since then. While ADCS team concentrates on their work, payload teams are preparing for their first test procedures. The V59-H is still showing best matching than any others so that we continue to use. [Hyngshin Kim, hskim@satrec.kaist.ac.kr]

POSAT-1: Attitude control operations and camera checkout continue on PoSAT-1. This evening, Monday, 4-OCT-93, a modified gravity-gradient-lock program was loaded to the 80C186 OBC. It is hoped that this modified algorithm will remove the preference toward upside down lock which has thus far effected the ADCS operations. Previously, the decision when to initiate the gravity capture sequence has been taken manually from the control station. The present experiments are aimed at commissioning a fully-automatic software package. If this effort is not successful in the next few days, the previous, manual operation will be executed. [G0/K8KA]

The AMSAT NEWS Service (ANS) is looking for volunteers to contribute weekly OSCAR status reports. If you have a favorite OSCAR which you work on a regular basis and would like to contribute to this bulletin, please send your observations to WD0HHU at his CompuServe address of 70524,2272, on INTERNET at wd0hhu@amsat.org, or to his local packet BBS in the Denver, CO area, WD0HHU @ W0LJF.#NECO.CO.USA.NOAM. Also, if you find that the current set of orbital elements are not generating the correct AOS/LOS times at your QTH, PLEASE INCLUDE THAT INFORMATION AS WELL. The information you provide will be of value to all OSCAR enthusiasts.

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SB SAT @ AMSAT $ANS-279.05
AMSAT-NA SPACE SYMPOSIUM INFO

HR AMSAT NEWS SERVICE BULLETIN 279.05 FROM AMSAT HQ
SILVER SPRING, MD OCTOBER 6, 1993
TO ALL RADIO AMATEURS BT
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AMSAT-NA Space Symposium Set For 7-11 OCT In Arlington, TX

Arrangements have been finalized for the AMSAT-NA Annual Meeting and Space Symposium '93. The proceedings are at the printers and the speakers list is full (30 Speakers!). The Saturday evening Banquet Program has now been arranged and will be very entertaining. Even if you have not registered, YOU ARE STILL INVITED! JUST SHOW UP AT THE QUINTA INN LOCATED IN ARLINGTON, TX AND REGISTER ON THE SPOT! The Talk-In frequency is 147.140 (+600 KHz). This promises to be one of the best Symposiums yet so don't miss it. See you in Arlington, TX, 8-10 October '93!

Keith Pugh, W5IU

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SB SAT @ AMSAT $ANS-279.06
CALL FOR AMSAT AC

HR AMSAT NEWS SERVICE BULLETIN 279.06 FROM AMSAT HQ
SILVER SPRING, MD OCTOBER 6, 1993
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AMSAT Needs Area Coordinators (AC)

Area Coordinators (AC) are needed in all parts of the country as part of an effort to increase the visibility of AMSAT's existing satellite operations and Phase-3D developments. AC are the essential interface between AMSAT and the local radio amateur population. Area Coordinators are volunteers whose activities may include AMSAT booths at hamfests, local AMSAT nets, presentations to local clubs in addition individual "Elmering". AC thru their activities increase awareness of the radio amateur satellite program in addition tpromoting AMSAT membership and fundraising for Phase IIID.

If you might be interested in becomming an Area Coordinator and providing invaluable service both to AMSAT and the "hams" in your community please contact Larry Brown (NW7N) or the AMSAT office, (301) 589-6062. Or E-mail to NW7N your current address and he will return some additional information on the AC position. NW7N would also be interested in answering your questions or discusing this activity either by phone or E-mail. He will also be at the Annual Meeting in Arlington and hopes to see you there.

Larry Brown (NW7N) can be reached in the following ways:

Internet: nw7n@amsat.org
Phone: (602) 886-1957 (evenings)

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SB SAT @ AMSAT $ANS-279.07
NEW AO-13 ZRO SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 279.07 FROM AMSAT HQ
SILVER SPRING, MD OCTOBER 6, 1993
TO ALL RADIO AMATEURS BT
BID: $ANS-279.07

WA5ZIB Presents A New AO-13 ZRO Test Schedule: All Are Invited

The ZRO tests of September 26th and October 2nd went very well. Noise levels both here and in Europe were very low and several stations reported hearing and copying the code groups at new levels. New "Z9 Club" entries are expected based on the conversations with test participants. One test remains this season on Monday, 18-OCT-93 at 04:30 UTC. For those in North America this is late on Sunday night, the 17th. The ZRO tests are held on 145.840 MHz at 10 words-per-minute. The signal strength at level "zero" is set to match the general telemetry beacon, while level "9" is 27 dB lower. Level "A" at 30 dB down is now being sent as a regular part of each run. All listener reports with date of test and numbers copied should be sent to Andy MacAllister (WA5ZIB), AMSAT V.P. of User Operations, 14714 Knights Way Drive, Houston, TX 77083. A report will be returned verifying the level of accurate reception.

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